Midterm Bonus Assignment (10 points)

Assignment Statement:

For this assignment, you will need to create a test class for the provided Function.java file and write a test method for function01(). The goal of the function01 method is to solve the equation without breaking or returning erroneous results. While testing, if an error is uncovered in the function01() method, then the function01() method needs to be refactored to patch the error. The idea here is to write a test using different parameter values and ensure that the function01() method performs as expected. You will also need to include a readMe file containing a summary (no more than a paragraph) about how you went about testing and what you did.

How To Get Points

To get credit, you must include a readMe file with your summary, and you must consist of a test file that compiles and runs using Junit 5. I will give partial credit for partial work as long as the readMe is there and the test runs. The more robust your test and refactor for function01, the more points you will score (up to 10). Lastly, you must submit correctly to receive points (see Submission section). These points will be added to your midterm.

Notes and Hints

- This assignment is for bonus points for your midterm
- When writing your test, consider edge cases that could return bad results
- Method function01() might be completely wrong from the start
- Partial credit is always better than no credit
- Don’t overthink it.

Submission

All submissions should be made to Gitlab. You should submit your work in a folder labeled MidtermBonus. **The assignment is due October 1, 2021 at 11:59 PM.** This is a bonus assignment, **so I will not accept late submissions without valid (medical or equal) excuses.**

Math Expression

$$\frac{x}{y} + \frac{\sqrt{x^2 - y}}{2xz}$$